

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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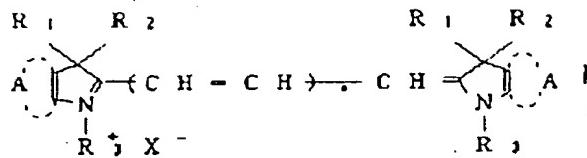
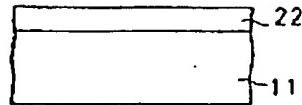
APPLICATION DATE : 01-05-90  
 APPLICATION NUMBER : 02111701

APPLICANT : RICOH CO LTD;

INVENTOR : UEDA YUTAKA;

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TITLE : OPTICAL RECORDING MEDIUM



**ABSTRACT :** PURPOSE: To perform a ternary recording with a higher reliability by a method wherein a recording layer consists of an organic compound and an inorganic compound, a first recording state is formed by changing the inorganic compound in phase, and a second recording state is formed by deforming the recording layer into projected or recessed form.

CONSTITUTION: By irradiating a recording layer 22 provided on a substrate 11 with a light, a first recording state of a recording film with a change in reflectance without a change in shape and a second recording state of a recording film with a change in reflectance subsequent to a change in shape are formed. In an optical recording medium on which information signals are recorded using a difference in reflectance among the first and second recording states and an unrecorded state, the first recording state is formed by changing the inorganic compound in phase, and the second recording state is formed by deforming the recording layer into projected or recessed form. The organic compound contains a cyanine dye shown by a formula I. The inorganic compound contains 50atm% or more Sb and a sulfur as the other component element. R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub> represent 1-6C alkyl; X is halogen or the like; and A represents a benzene ring or a naphthyl ring.

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